

75th Research, Development and Innovation Committee Meeting

Date: 20 February 2025

Time: 08.30 – 14.55

Place: ENTSO-E Office, Rue de Spa 8, 1000 Brussels

Participants

Chairman

	Eles	Slovenia
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Vice Chairman

	Terna	Italy
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Members

1.	50Hertz Transmission	Germany
2.	Amprion	Germany
3.	APG	Austria
4.	Eles	Slovenia
5.	Energinet	Denmark
6.	HOPS	Croatia
7.	IPTO	Greece
8.	Litgrid	Lithuania
9.	Mavir	Hungary
10.	MEPSO	North Macedonia
11.	PSE	Poland
12.	Statnett	Norway
13.	Svenska Kraftnät	Sweden
14.	Terna	Italy
15.	TenneT TSO BV	The Netherlands
16.	TenneT TSO GmbH	Germany
<i>Online</i>		
17.	Elia	Belgium
18.	Landsnet	Iceland
19.	OST	Albania
20.	REN	Portugal
21.	Seps	Slovakia
22.	Transelectrica	Romania
23.	TransnetBW	Germany
24.	Ukrenergo	Ukraine

Substitutes

25.	AST	Latvia
26.	CEPS	Czech Republic
27.	EirGrid	Ireland
28.	Fingrid	Finland
29.	REE	Spain
30.	RTE	France
31.	SONI	Northern Ireland
32.	TenneT TSO BV	The Netherlands
Online		
33.	Swissgrid	Switzerland
34.	Terna	Italy

Convenors WGs

1.	WG 2 Security and Operations of tomorrow	Germany
2.	WG 3 Flexibility and Markets	Ireland/Northern Ireland
3.	WG 4 Future of energy systems	Norway
4.	TF Demonstration & Innovation Coordination	France
5.	RDIC Representative for Sector Coupling	Italy
Online		
6.	WG Research Development & Innovation Planning	Portugal
7.	WG 1 Assets and Technologies (delegated representative)	Norway
8.	WG5 Digital & Communication	Poland
9.	Flexibility Task Force	Italy

Secretariat

	ENTSO-E	
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Excused

1.	CGES	Montenegro
2.	Elering	Estonia
3.	EMS	Serbia



BLOCK 1: RDIC ADMINISTRATION

TOP 1. Welcome and Attendance quorum

The Chair welcomes all participants to the 75th RDIC meeting taking place in Brussels, Belgium.

Topic point:

- Confirmation and welcome of participants.

Decision:

- 32 of 35 TSOs represented in the Research, Development and Innovation Committee attend the meeting. The RDIC is quorate.

TOP 2. Approval of draft agenda and RDIC Dashboard 2025

The Chair presents the agenda for the day. The Innovation Deputy presents the dashboard with the ongoing actions and activities, as well as the 2025 budget execution status and 2025 Procurement Plan.

Topic point:

- RDIC Dashboard and Budget 2025.

Decisions:

- The RDIC approves the agenda.
- The RDIC takes note of:
 - Draft planning of future actions;
 - RDIC Budget execution status for 2025;
 - 2025 Procurement Plan.

TOP 3. Governance RDIC

The Chair informs of the ongoing call for a WG1 Assets & Technologies Convenor and reminds Members to submit nominations. The RDIC notes the recent merger of WG3 Flexibility & Markets and WG4 Future of Energy Systems, now operating as a single group. Finally, the Innovation Deputy provides an update on the Terms of References, outlining the current status and next steps for finalisation.

Topic point:

- Call for WG1 Convenor – reminder.
- New WG3 & WG4 configuration.
- Terms of References – status & next steps.

Decisions:

- The RDIC takes note of:
 - the extension of the call for WG1 Assets & Technologies Convenor;
 - the merger between WG3 Flexibility & Markets and WG4 Future of Energy Systems.

BLOCK 2: STRATEGY TOPICS

TOP 4. Report from the Board and Assembly meetings

The Chair and Innovation Deputy report on the relevant outcomes from the Board and Assembly, including updates on the Expert Group Infrastructure and Environmental, Social and Governance initiative. The Expert Group Offshore Representative presents updates on the Public Offshore Roadmap and relevant position papers.

Topic point:

- Report from Board meeting, 17 December 2024 and 22 January 2025, and Assembly meeting, 11 December 2024.
- Expert Group Infrastructure.
- Environmental Social & Governance (ESG): Organisation and next steps.
- Expert Group Offshore Wind.

Decisions:

- The RDIC takes note of the the updates on:
 - The Report from Board meeting, 17 December 2024 and 22 January 2025, and Assembly meeting, 11 December 2024;
 - Expert Group Infrastructure;
 - Environmental Social & Governance (ESG): Organisation and next steps;
 - Expert Group Offshore Wind.

TOP 5. RDIC Work Programme 2025 – Final version, discussions & approval

The Chair, Vice-Chair and the Secretariat summarise changes to the final 2025 RDIC Work Programme together with the required budget and resources gaps. The potential new topics of work are presented to the Members, based on the results of the December survey and questionnaire run during the meeting. Secretariat lists next steps and milestones for the ENTSO-E Annual Working Programme & Budget.

Topic point:

- Workstreams and required FTE & budgetary needs.
- Survey results & Discussions.
- 2026 ENTSO-E Annual Working Programme & Budget.

Decision:

- The RDIC approves the RDIC Work Programme 2025.

TOP 6. Important points from WGs/TFs/Projects

The WG3 Convenor and the Expert Representative for Sector Coupling give an update on the progress of the hydrogen study's development, outline the study's content, and provide an overview of the project timeline. The Secretariat presents five Technopedia factsheets for RDIC approval.

The Secretariat presents the context and tentative workplan for the new RDIC-led work on Grid Action Plan 6 on hosting capacities. RDIC Members are to identify experts within their organization to support this action. The Chair and Secretariat provide an update on Innovation Fridays and invite RDIC Members to submit their topic ideas for the future webinars.

Topic point:

- WG3: Updates on the Hydrogen Study.
- WG RDIP: Technopedia Fact Sheets Approval.
- Grid Action Plan – Action 6: Hosting Capacity.
- Innovation Fridays: Update.

Decisions:

- The RDIC approves Batch D of Technopedia factsheets for publication, as submitted in the Session File.
- The RDIC takes note of:
 - The updates on the study on “Impact of Renewable Hydrogen on the power system: system planning, flexibility and market aspects”;
 - The status and developments on Grid Action Plan – Action 6;

- The update on Innovation Fridays.

TOP 7. Digitalising the Energy System – EU Actions plan - Smart Grid Indicators & Updates from DESAP

The Secretariat present updates from JTF DESAP on the report on Common TSO-DSO Challenges & Opportunities, Digital Twin use cases, and Smart Grid Indicators (SGIs). The Co-Chair of JTF DESAP highlights that recurring bi-weekly calls have been set up between experts from both ENTSO-E and EU-DSO Entity to drive progress on use cases development. The RDIC takes note of the DESAP project's overall status and the progress on SGIs, aiming for delivery at the Infrastructure Forum 2025.

Topic point:

- Updates from JTF DESAP:
 - Updates on Report on Common TSO-DSO Challenges & Opportunities;
 - Updates on Digital Twin Use Cases;
 - Updates on SGIs.

Decisions:

- The RDIC takes note of:
 - The status of the Digitalisation of Energy Action Plan (DESAP) project;
 - The status of the Smart Grid Indicators (SGIs) work with a view to deliver in the Infrastructure Forum 2025.

TOP 8. Methodology for National Flexibility Needs

TF Flexibility Convenor presents an outline of the latest Flexibility Needs Assessment (FNA) methodology draft and highlights the main strategic points where guidance of the Board is requested. The Convenor updates the RDIC Members on the key open points between ENTSO-E, DSO Entity and ACER as well as an overview of the next steps before the final submission to ACER. The Members are encouraged to raise any comments or questions on the topics with the Convenor and the Secretariat staff. Recognising the importance of the topic and the interest from the Members, the RDIC Chair suggests a 5-minute presentation followed by 15-minute discussion session for the next RDIC Committee meeting.

Topic point:

- Updates from TF Flexibility:
 - FNA Methodology Draft for approval.
 - Public consultation and member review responses.
 - FNA-ERAA alignment position paper.
 - Union-level Study by ACER.

Decision:

- The RDIC takes note of the progress and next steps on the Methodology for the Analysis of National Flexibility Needs.

BLOCK 3: WORKING GROUPS

TOP 9. TF Demonstration and Innovation Coordination

The TF DIC Convenor updates the Members on the status of HORIZON-CL5-2025-02-D3-17 call coordination, informs about the recent updates on the call "Efficient electrolysis coupling with variable renewable electricity and/or heat integration" and reminds the Members the request to ENTSO-E to participate in the Advisory Board of the proposal. The Convenor also updates the Members on the interests already collected on Work Programme 2025 Cluster 5 & the call coordination plan, reminding the remaining TSOs to email their interests. Lastly, the Convenor gives an overview of the Research and Innovation Ecosystem Monitoring

and its updates & news. ENTSO-E Secretariat updates on the Innovation Database and illustrates the 1st iteration Data collection data set and process.

Topic point:

- Call Coordination HORIZON-CL5-2025-02-D3-17 – update.
- External requests for ENTSO-E to join projects.
- Horizon Europe Work Programmes 2025 - Update and Calls coordination.
- Innovation Database.
- Research and Innovation Ecosystem Monitoring – update.

Decisions:

- The RDIC takes note of the reporting from Task Force DIC and for the next steps on the HORIZON-CL5-2025-02-D3-17 call.
- The RDIC approves the Innovation Database initiative.

TOP 10. WG5 Digital & Communication

The WG5 Convenor provides updates from WG5 task forces, especially the recently concluded cross-committee workshop on AI applications in TSO operations on 30 January as well as PMU and PDC implementation guideleines on 04 February, and planned workshop on vendor agnostic solutions on 21 February. The Members are informed that the RDIC is to approve the position paper on vendor agnostic solutions through a writing voting process towards mid-March.

Topic point:

- Updates from WG5/TFs:
 - TF AI: Updates from the cross-committee workshop on application of AI in TSO operations and planned next steps on AI Roadmap;
 - TF WAMS: Updates from cross-committee workshop on PMU and PDC implementation guidelines and planned next steps on new horizons;
 - TF VAS (formerly VIS): Updates on planned cross-committee workshop on VAS, ongoing review of VAS position paper and planned communication with vendors in Q1 2025.

Decision:

- The RDIC takes note of the overall progress of the individual Task Forces within WG5 Digital & Communication.

TOP 11. WG1 Assets and Technologies

The WG proxy and the Secretariat present the ongoing work related to the raw material passport (RMP), part of Mission 1 of the 2024-2034 RDI Roadmap. Subsequently, they notify of the current leadership vacancies within both the Task Force on Building Information Modelling (BIM) and the Task Force on High-Voltage Cables (HV Cables). Finally, the Vice-Chair briefs on the current consultation status on secondary legislation related to the TSO under the Net-Zero Industry Act.

Topic point:

- LCA: raw material passport (RMP).
- Update on TF BIM leadership.
- Update on TF HV cables leadership.
- NZI Secondary legislation consultation.

Decisions:

- The RDIC takes note of:

- The progress of work on eco-design and life cycle assessment as part of Mission 1 within the 2024-2034 RDI Roadmap.
- The current leadership vacancy within the TF Building Information Modelling (BIM)
- The current leadership vacancy within the TF High-Voltage cables (HV Cables)
- The RDIC acknowledges the ongoing work led by SDC on secondary legislation pertaining to the TSO under the Net-Zero Industry Act.

TOP 12. WG3 Flexibility and Markets

The WG3 Convenor gives an update on the initial work done by the Task Force on Business models for flexibility, as well as on the timeline for 2025.

Topic point:

- Updates on TF on Business models for flexibility.

Decision:

- The RDIC takes note of the updates on the activities of the Task Force Business Models for Flexibility.

TOP 13. WG4 Future of Energy Systems

The Expert Representative for Sector Coupling delivers an update on the progress of the Water Energy Nexus study's development, outlines its content, and provides an overview of the project timeline. Additionally, the WG4 Convenor presents updates on the work of the Task Force on Long Duration Storage and on the scoping of the new workstream on Data Centers.

Topic point:

- Update on the Water Energy Nexus study.
- Updates on TF on Long duration storage and new Data centers workstream.

Decision:

- The RDIC takes note of the development steps regarding the Water Energy Nexus study and of the updates on the WG4 activities for 2025.

TOP 14. WG RDIP

The WG RDIP Convenor presents the status of the Technopedia update and informs the Members about the timeline and next steps of this workstream, including an update on the EU Grid Action Plan, Action 7, outlining the principles and timeline of the joint work with DSO Entity. Additionally, the WG RDIP Convenor updates on the ongoing Implementation Plan drafting phase and timeline of future milestones.

Topic point:

- Technopedia updates and resources needed.
- Implementation Plan – status update.

Decisions:

- The RDIC takes note of the developments with regard to EU Grid Action Plan, Action 7 status on Technopedia.
- The RDIC takes note of the developments of the Implementation Plan.

TOP 15. WG2 Security and Operations of Tomorrow

The WG2 Convenor reports on the ongoing progress of the HVDC Specifications and Parameters survey. The WG Convenor also invites Members to participate in the HVDC Reliability Insights Survey. Subsequently, the WG Convenor raises awareness on the invitation to the upcoming workshop, the WG's intention to develop

power system stability explainers and the update to the stability high-level position paper published in June 2022.

Topic point:

- WG2 cross-committee Workshop invite.
- HVDC Specifications and Parameters and HVDC Reliability Insights survey progress.
- Power system stability explainers.
- Stability high level position paper update.

Decisions:

- The RDIC takes note of:
 - WG2 Security and Operations of Tomorrow reporting;
 - The update of ENTSO-E high-level position paper on stability management published in June 2022.

BLOCK 4: INTER TSO-PROJECTS & DISSEMINATION

TOP 16. Dissemination & Communication

The ETIP SNET Vice-Chairman, on behalf of ENTSO-E, provides an update on the organisation's main current events and highlights the high priority and importance of ETIP SNET workstreams on AI/GenAI and on the Innovation Roadmap for ENTSO-E.

Topic point:

- ETIP SNET - update.
- Upcoming Conferences/events we are to participate.

Decision:

- The RDIC takes note of the ETIP SNET updates and upcoming conferences and events.

BLOCK 5: AoB & APPROVAL OF DECISIONS

TOP 17. Approval of the Decisions

Topic point:

- Approval of the Decisions.

Decision:

- The RDIC approves the Decisions and draft minutes of the meeting.